

**The Pennsylvania State University Master Agreement**

**Contract number: 4400008014**

**Agency Request - Work Plan**

*(Agency to complete and provide to University)*

*If University Principal Investigator is known, please incorporate their contact info below,  
otherwise complete and forward this form to:*

*Principal Investigator: Dr. James Shortle  
Director, Environment and Natural Resources Institute  
University Park  
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E-mail: [jshortle@psu.edu](mailto:jshortle@psu.edu)*

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Phone: 814-863-0587*

**Agency and Project Name:**

Agency: PA Department of Environmental Protection, Bureau of Conservation and Restoration

Project Name: Project 1 - Nutrient Pollution: Drivers & Interventions

**Objective:**

This project will assist PA DEP in its understanding of nitrogen pollution of surface waters in the Chesapeake Bay Watershed. Nitrogen pollution of surface waters is associated with many large-scale environmental concerns, including eutrophication, harmful algae blooms, hypoxia, acid rain, nitrogen saturation in forests, global warming, and more. The primary goal of this project is to estimate rates of atmospheric deposition of ammonium and nitrate to the Chesapeake Bay Watershed and adjoining tidal waters, from 1983 to 2013, using modeling.

Is this a continuation of services? ☐ YES ☒ NO  
If yes, previous Purchase Order Number: \_\_\_\_\_

**Time Frame of Project:**

From: upon execution  
To: 6/30/16

**Project Site:** The Pennsylvania State University

**Statement of Work:** Annual and daily ammonium and nitrate wet deposition fluxes to Chesapeake Bay Watershed sub-basins and to land and tidal water segment polygons will be generated by aggregating corresponding deposition estimates from the 1/24th-degree model grid and delivered to the Chesapeake Bay Program Office. A final report detailing the model development will be prepared and submitted to the Chesapeake Bay Program Office.

**Confidential Information:** N/A

**Copyright Ownership:** Ownership of materials developed as part of the scope of work for Project Tasks. *Agency must check one of the provisions:*

☐ Work Made for Hire/University Non-Exclusive License

☒ Purchase Orders Vesting Title in the University and Granting a Non-Exclusive License to the Commonwealth

**Reporting:** *(Standard reporting is monthly. Only list additional or different reporting requirements that are required for the project)*

1. NA

**Federal Pass Through Information:**

If funding for this project stems from a Federal Agency, the source of these funds must be disclosed notifying University of the respective percentages of state funds and federal funds that will be utilized for payment for this service. The following information is required or the University may not provide a quote.

Prime Award Number: CB-96317101

Federal Agency: US EPA

Sub-Agency: US EPA – Chesapeake Bay Program

Examples: UDSA – CSREES or USDA – ARA

USDI–National Park Service or USDI – U.S. Geological Survey

Allowable indirect cost percentage for Federal Agency/Sub-Agency above: 49.5%

Catalog of Federal Domestic Assistance (CFDA) number *(if applicable)*: 66.466

Percentage of federal funding: 100 %

Percentage of state funding: 0 %

Attachment 1


When Commonwealth funds are involved and it is known that agency or the project permits the recovery or partial recovery of indirect costs, please indicate this in the Statement of Work. Some examples where indirect costs are recovered when Commonwealth funds are involved:

PennDOT (currently 25%)

DEP Growing Greener Alternative Fuel Incentive Grant Projects (2%)

If at any time, the funding sources or percentages are changed it is the responsibility of the Agency to notify the University. If Federal funds are increased, the University has the right to revise the indirect costs at that time or anytime that the percentage of Federal Funds has increased. The Agency will be responsible for payment of additional costs associated with the change in funding source or change in funding percentages.

Signature attesting to Funds appropriated for Project:

 7/14/15  
Agency Head or Designee Date

(The Agency has the option to competitively solicit the procurement with other suppliers if the University's proposed budget is not considered reasonable).